

Gregory, Bernarr

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From: PLUS  
Sent: Thursday, February 10, 2005 2:07 PM  
To: Gregory, Bernarr  
Subject: PLUS Results for 10840014

Here are the PLUS search results for 10840014.

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10840014\_QUAL.txt



10840014\_LIST.txt



10840014\_WEST.txt



10840014\_EAST.txt



10840014.east



10840014\_CLS.txt



10840014\_CLSTITLES.t

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10840014\_WDS.txt

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14

PLUS Search Results for S/N 10840014, Searched February 10, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10840014\_CLS

Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10840014 on February 10, 2005

Original Classifications

12	343/700MS
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4	343/702
4	343/713
4	348/706
3	250/342
3	342/22
3	343/708
3	343/895
3	600/422
2	52/40
2	200/19.4
2	219/713
2	219/749
2	333/12
2	342/16
2	342/20
2	342/359
2	342/365
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2	342/372
2	342/408
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2	343/915
2	348/614
2	348/732
2	399/111
2	399/90
2	430/572
2	455/67.11
2	600/407
2	600/411
2	600/430
2	607/36
2	607/50

2 715/721

Cross-Reference Classifications

6 343/895  
5 342/196  
4 250/332  
4 324/318  
4 343/720  
4 343/795  
4 725/68  
3 333/185  
3 342/195  
3 342/25A  
3 343/700MS  
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10840014\_CLS

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Combined Classifications

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2 333/1.1  
2 333/175  
2 333/202  
2 333/206  
2 340/5.61  
2 340/561  
2 340/572.7  
2 340/825.69  
2 342/16  
2 342/17  
2 342/174  
2 342/188  
2 342/189  
2 342/194  
2 342/20  
2 342/25E  
2 342/25F  
2 342/365  
2 342/373  
2 342/379  
2 342/408  
2 342/424  
2 342/44  
2 342/51  
2 343/704  
2 343/722  
2 343/725  
2 343/741  
2 343/750  
2 343/755  
2 343/756  
2 343/767

10840014\_CLS

2 343/772  
2 343/781P  
2 343/788  
2 343/792.5  
2 343/830  
2 343/853  
2 343/861  
2 343/894  
2 348/564  
2 348/569  
2 348/614  
2 348/705  
2 348/724  
2 348/732  
2 374/117  
2 375/232  
2 398/209  
2 399/13  
2 399/90  
2 430/580  
2 430/581  
2 430/585  
2 455/117  
2 455/182.3  
2 455/183.1  
2 455/193.1  
2 455/226.1  
2 455/235.1  
2 455/249.1  
2 455/272  
2 455/276.1  
2 455/282  
2 455/289  
2 455/291  
2 455/297  
2 455/315  
2 455/351  
2 455/352  
2 455/80  
2 600/407  
2 600/410  
2 600/411  
2 600/424  
2 600/430  
2 600/549  
2 607/36  
2 607/50  
2 715/721



10840014\_CLS

2 725/40  
2 725/44  
2 725/45  
2 725/56

10840014\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10840014 on February 10, 2005

- 15 343/700MS (12 OR, 3 XR)  
     Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
     343/700R ANTENNAS  
     343/700MS .Microstrip
  
- 9 343/895 (3 OR, 6 XR)  
     Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
     343/700R ANTENNAS  
     343/895 .Spiral or helical type
  
- 7 342/25R (7 OR, 0 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/25R SYNTHETIC APERTURE RADAR
  
- 6 343/702 (4 OR, 2 XR)  
     Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
     343/700R ANTENNAS  
     343/702 .With radio cabinet
  
- 6 343/713 (4 OR, 2 XR)  
     Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
     343/700R ANTENNAS  
     343/711 .With vehicle  
     343/713 ..Supported by vehicle body
  
- 6 343/795 (2 OR, 4 XR)  
     Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
     343/700R ANTENNAS  
     343/793 .Balanced doublet - centered (e.g., dipole)  
     343/795 ..Sheet or wing type
  
- 5 324/318 (1 OR, 4 XR)  
     Class 324 : ELECTRICITY: MEASURING AND TESTING  
     324/300 PARTICLE PRECESSION RESONANCE  
     324/318 .Spectrometer components
  
- 5 342/196 (0 OR, 5 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/175 WITH PARTICULAR CIRCUIT  
     342/195 .Digital processing  
     342/196 ..Fast fourier transform (FFT)

10840014\_CLSTITLES

- 5 343/909 (2 OR, 3 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/907 .Antenna components
  - 343/909 ..Refracting means and radio wave energy filters (e.g., lenses and polarizers)
  
- 5 348/706 (4 OR, 1 XR)
  - Class 348 : TELEVISION
  - 348/609 ...Reduction of chrominance luminance cross-talk (e.g., precomb)
  - 348/705 .Switching
  - 348/706 ..receiver type
  
- 4 250/332 (0 OR, 4 XR)
  - Class 250 : RADIANT ENERGY
  - 250/330 INFRARED-TO-VISIBLE IMAGING
  - 250/332 .Including detector array
  
- 4 342/372 (2 OR, 2 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
  - 342/350 DIRECTIVE
  - 342/368 .Including a steerable array
  - 342/371 ..With electronic scanning
  - 342/372 ...Controlled
  
- 4 343/703 (2 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/703 .Measuring signal energy
  
- 4 343/708 (3 OR, 1 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/705 .With aircraft
  - 343/708 ..Aircraft part of active antenna or vice vers
  
- a
  
- 4 343/715 (1 OR, 3 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/711 .With vehicle
  - 343/713 ..Supported by vehicle body
  - 343/715 ...Rod type

10840014\_CLSTITLES

- 4 343/720 (0 OR, 4 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/720 .Combined with diverse-type art device
  
- 4 343/771 (2 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/767 .Slot type
  - 343/770 ..Plural
  - 343/771 ...With wave guide coupling
  
- 4 343/840 (2 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/834 .Antenna with parasitic reflector
  - 343/840 ..Parabolic-type reflector with active antenna at focus
  
- 4 343/846 (1 OR, 3 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/846 .With grounding structure (including counterpoises)
  
- 4 343/915 (2 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/907 .Antenna components
  - 343/912 ..Reflector or director
  - 343/915 ...Collapsible, foldable or adjustable
  
- 4 399/111 (2 OR, 2 XR)
  - Class 399 : ELECTROPHOTOGRAPHY
  - 399/107 HAVING PARTICULAR STRUCTURE
  - 399/110 .Modular or displaceable
  - 399/111 ..Process cartridge unit
  
- 4 725/68 (0 OR, 4 XR)
  - Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
  - 725/63 SATELLITE VIDEO DISTRIBUTION SYSTEM
  - 725/68 .Receiver
  
- 3 219/749 (2 OR, 1 XR)
  - Class 219 : ELECTRIC HEATING
  - 219/678 MICROWAVE HEATING
  - 219/745 .Field modification
  - 219/746 ..With power feed structure

10840014\_CLSTITLES

219/748 ...Radiator (e.g., antenna, etc.)  
219/749 ....Rotating

3 250/342 (3 OR, 0 XR)  
Class 250 : RADIANT ENERGY  
250/336.1 INVISIBLE RADIANT ENERGY RESPONSIVE ELECTRIC  
SIGNALLING  
250/338.1 .Infrared responsive  
250/340 ..Methods  
250/342 ...Locating infrared emissive objects

3 333/12 (2 OR, 1 XR)  
Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
333/12 TRANSMISSION LINE INDUCTIVE OR RADIATION  
INTERFERENCE REDUCTION SYSTEMS

3 333/185 (0 OR, 3 XR)  
Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
333/24R COUPLING NETWORKS  
333/167 .Frequency domain filters utilizing only lumped

d

parameters  
333/185 ..Having significant physical structure

3 340/539.1 (1 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
340/531 .With particular coupling link  
340/539.1 ..Radio

3 342/195 (0 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/175 WITH PARTICULAR CIRCUIT  
342/195 .Digital processing

3 342/22 (3 OR, 0 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/22 TRANSMISSION THROUGH MEDIA OTHER THAN AIR OR  
FREE SPACE

3 342/25A (0 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/25R SYNTHETIC APERTURE RADAR  
342/25A .Mapping or imaging using synthetic aperture  
radar

10840014\_CLSTITLES

- 3 342/352 (1 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                   AND DEVICES  
       342/350       DIRECTIVE  
       342/352       .Including a satellite
  
- 3 342/359 (2 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                   AND DEVICES  
       342/350       DIRECTIVE  
       342/359       .Including antenna orientation
  
- 3 342/368 (2 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                   AND DEVICES  
       342/350       DIRECTIVE  
       342/368       .Including a steerable array
  
- 3 343/705 (0 OR, 3 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
       343/700R       ANTENNAS  
       343/705       .With aircraft
  
- 3 343/744 (1 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
       343/700R       ANTENNAS  
       343/741       .High frequency type loops  
       343/744       ..With series reactance in loop
  
- 3 343/769 (1 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
       343/700R       ANTENNAS  
       343/767       .Slot type  
       343/769       ..Ring-shaped slot
  
- 3 343/786 (1 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
       343/700R       ANTENNAS  
       343/772       .Wave guide type (e.g., horn)  
       343/786       ..With horn
  
- 3 343/860 (1 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
       343/700R       ANTENNAS  
       343/850       .With coupling network or impedance in the  
                           leadin  
       343/860       ..Impedance matching network

10840014\_CLSTITLES

- 3 343/872 (1 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/872 .With housing or protective covering
  
- 3 343/873 (2 OR, 1 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/872 .With housing or protective covering
  - 343/873 ..Antenna embedded, potted, or coated
  
- 3 343/876 (0 OR, 3 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/876 .Switching between antennas and lines
  
- 3 348/563 (0 OR, 3 XR)
  - Class 348 : TELEVISION
  - 348/553 BASIC RECEIVER WITH ADDITIONAL FUNCTION
  - 348/563 .For display of additional information
  
- 3 430/572 (2 OR, 1 XR)
  - Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF
  - 430/495.1 RADIATION SENSITIVE PRODUCT
  - 430/564 .Silver compound sensitizer containing
  - 430/570 ..Spectral sensitizing
  - 430/572 ...Multiple sensitizers or supersensitizing
  
- 3 430/574 (1 OR, 2 XR)
  - Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF
  - 430/495.1 RADIATION SENSITIVE PRODUCT
  - 430/564 .Silver compound sensitizer containing
  - 430/570 ..Spectral sensitizing
  - 430/572 ...Multiple sensitizers or supersensitizing
  - 430/574 ....Two or more cyanine sensitizers
  
- 3 430/577 (0 OR, 3 XR)
  - Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF
  - 430/495.1 RADIATION SENSITIVE PRODUCT
  - 430/564 .Silver compound sensitizer containing
  - 430/570 ..Spectral sensitizing
  - 430/572 ...Multiple sensitizers or supersensitizing
  - 430/576 ....Cyanine sensitizer
  - 430/577 .....Merocyanine compound

10840014\_CLSTITLES

3 430/583 (0 OR, 3 XR)

Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS,  
COMPOSITION, OR PRODUCT THEREOF

430/495.1 RADIATION SENSITIVE PRODUCT

430/564 .Silver compound sensitizer containing

430/570 ..Spectral sensitizing

430/581 ...Cyanine sensitizer

430/583 ....Containing odd number of methine groups

3 430/584 (0 OR, 3 XR)

Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS,  
COMPOSITION, OR PRODUCT THEREOF

430/495.1 RADIATION SENSITIVE PRODUCT

430/564 .Silver compound sensitizer containing

430/570 ..Spectral sensitizing

430/581 ...Cyanine sensitizer

430/583 ....Containing odd number of methine groups

430/584 .....Five or more methine groups

3 455/277.1 (0 OR, 3 XR)

Class 455 : TELECOMMUNICATIONS

455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER

455/269 .With wave collector (e.g., antenna)

455/272 ..Plural separate collectors

455/277.1 ...Selectively or alternately connected to  
receiver

3 455/67.11 (2 OR, 1 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/67.11 .Having measuring, testing, or monitoring of  
system or part

3 600/422 (3 OR, 0 XR)

Class 600 : SURGERY

600/300 DIAGNOSTIC TESTING

600/407 .Detecting nuclear, electromagnetic, or  
ultrasonic radiation

600/410 ..Magnetic resonance imaging or spectroscopy

600/421 ...Including any system component contacting  
(internal or external) or conforming to bo

dy or body part

600/422 ....Coil



10840014\_CLSTITLES

- 2 52/40 (2 OR, 0 XR)  
     Class 052 : STATIC STRUCTURES  
     52/27 INCLUDING COMPONENT (E.G., WALL) DESIGNED TO  
             RECEIVE A DISPARATE ARTICLE HAVING DISPARA  
 TE ARTICLE  
             MOUNTED THERETO  
     52/40 .On shaft or tower
- 2 99/DIG 14 (0 OR, 2 XR)  
     Class 099 : FOODS AND BEVERAGES: APPARATUS  
     99/DIG 14 Induction heating
- 2 102/214 (1 OR, 1 XR)  
     Class 102 : AMMUNITION AND EXPLOSIVES  
     102/200 IGNITING DEVICES AND SYSTEMS  
     102/206 .Ignition or detonation circuit  
     102/211 ..Proximity fuze  
     102/214 ...Radio wave
- 2 123/633 (0 OR, 2 XR)  
     Class 123 : INTERNAL-COMBUSTION ENGINES  
     123/594 HIGH TENSION IGNITION SYSTEM  
     123/633 .Radio interference protection
- 2 200/19.4 (2 OR, 0 XR)  
     Class 200 : ELECTRICITY: CIRCUIT MAKERS AND BREAKERS  
     200/19.01 PERIODIC  
     200/19.39 .Distributor  
     200/19.4 ..With noise preventing means
- 2 219/516 (0 OR, 2 XR)  
     Class 219 : ELECTRIC HEATING  
     219/260 .Resistive element: igniter type  
     219/507 .With current connection and/or disconnection  
             means (e.g., switch)  
     219/509 ..Automatically operated  
     219/510 ...Thermally responsive  
     219/516 ....Insertable into or in direct contact with  
             heated material
- 2 219/713 (2 OR, 0 XR)  
     Class 219 : ELECTRIC HEATING  
     219/678 MICROWAVE HEATING  
     219/702 .With control system  
     219/704 ..Load condition sensor  
     219/710 ...Temperature  
     219/712 ....Probe  
     219/713 .....Wireless type

## 10840014\_CLSTITLES

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2  219/748      (1 OR, 1 XR)
      Class 219 : ELECTRIC HEATING
      219/678      MICROWAVE HEATING
      219/745      .Field modification
      219/746      ..With power feed structure
      219/748      ...Radiator (e.g., antenna, etc.)

2  235/380      (1 OR, 1 XR)
      Class 235 : REGISTERS
      235/375      SYSTEMS CONTROLLED BY DATA BEARING RECORDS
      235/380      .Credit or identification card systems

2  324/307      (1 OR, 1 XR)
      Class 324 : ELECTRICITY: MEASURING AND TESTING
      324/300      PARTICLE PRECESSION RESONANCE
      324/307      .Using a nuclear resonance spectrometer system

2  324/309      (0 OR, 2 XR)
      Class 324 : ELECTRICITY: MEASURING AND TESTING
      324/300      PARTICLE PRECESSION RESONANCE
      324/307      .Using a nuclear resonance spectrometer system

      324/309      ..To obtain localized resonance within a sample

2  324/322      (0 OR, 2 XR)
      Class 324 : ELECTRICITY: MEASURING AND TESTING
      324/300      PARTICLE PRECESSION RESONANCE
      324/318      .Spectrometer components
      324/322      ..Electronic circuit elements

2  324/72       (0 OR, 2 XR)
      Class 324 : ELECTRICITY: MEASURING AND TESTING
      324/72       TESTING POTENTIAL IN SPECIFIC ENVIRONMENT
                   (E.G., LIGHTNING STROKE)

2  324/95       (1 OR, 1 XR)
      Class 324 : ELECTRICITY: MEASURING AND TESTING
      324/76.11    MEASURING, TESTING, OR SENSING ELECTRICITY, PE
                   SE
      324/95       .With waveguide or long line

2  333/1.1      (0 OR, 2 XR)
      Class 333 : WAVE TRANSMISSION LINES AND NETWORKS

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10840014\_CLSTITLES  
 333/1 PLURAL CHANNEL SYSTEMS  
 333/1.1 .Nonreciprocal gyromagnetic type (e.g.,  
 circulators)

2 333/175 (0 OR, 2 XR)  
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
 333/24R COUPLING NETWORKS  
 333/167 .Frequency domain filters utilizing only lumped  
 parameters  
 333/175 ..Resonant, discrete frequency selective type

2 333/202 (0 OR, 2 XR)  
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
 333/24R COUPLING NETWORKS  
 333/202 .Wave filters including long line elements

2 333/206 (0 OR, 2 XR)  
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
 333/24R COUPLING NETWORKS  
 333/202 .Wave filters including long line elements  
 333/206 ..Coaxial

2 340/5.61 (1 OR, 1 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/825 SELECTIVE  
 340/5.1 .Intelligence comparison for controlling  
 340/5.2 ..Authorization control (e.g., entry into an  
 area)  
 340/5.6 ...Coded record input (e.g., IC card or key)  
 340/5.61 ....Wireless transceiver

2 340/561 (1 OR, 1 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
 340/540 .Specific condition  
 340/541 ..Intrusion detection  
 340/561 ...Disturbance of electric field

2 340/572.7 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
 340/540 .Specific condition  
 340/568.1 ..Article placement or removal (e.g.,  
 anti-theft)  
 340/572.1 ...Detectable device on protected article  
 (e.g., "tag")

## 10840014\_CLSTITLES

340/572.7 ....Specified antenna structure

2 340/825.69 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/825 SELECTIVE  
 340/825.57 .Pulse responsive actuation  
 340/825.62 ..Serial  
 340/825.69 ...Radio link

2 342/16 (2 OR, 0 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/13 RADAR EW (ELECTRONIC WARFARE)  
 342/16 .ECCM (Electronic counter-countermeasures,  
 i.e., antijamming)

2 342/17 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/13 RADAR EW (ELECTRONIC WARFARE)  
 342/16 .ECCM (Electronic counter-countermeasures,  
 i.e., antijamming)  
 342/17 ..Radar reacts to jamming

2 342/174 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/165 TESTING OR CALIBRATING OF RADAR SYSTEM  
 342/173 .By monitoring  
 342/174 ..Calibrating

2 342/188 (1 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/188 .With polarization

2 342/189 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/189 .For correlation

2 342/194 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/194 .Complex signal (in phase and quadrature)

10840014\_CLSTITLES

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2  342/20      (2 OR, 0 XR)
    Class 342 :  COMMUNICATIONS:  DIRECTIVE RADIO WAVE SYSTEMS
                  AND DEVICES
    342/13      RADAR EW (ELECTRONIC WARFARE)
    342/20      .Detection of surveillance

2  342/25E     (0 OR, 2 XR)
    Class 342 :  COMMUNICATIONS:  DIRECTIVE RADIO WAVE SYSTEMS
                  AND DEVICES
    342/25R      SYNTHETIC APERTURE RADAR
    342/25A      .Mapping or imaging using synthetic aperture
                  radar
    342/25E      ..With time domain processing of the SAR
                  signals in azimuth, e.g. time focusing

2  342/25F     (0 OR, 2 XR)
    Class 342 :  COMMUNICATIONS:  DIRECTIVE RADIO WAVE SYSTEMS
                  AND DEVICES
    342/25R      SYNTHETIC APERTURE RADAR
    342/25A      .Mapping or imaging using synthetic aperture
                  radar
    342/25F      ..Particular SAR processing techniques (e.g.
spotlight mode,
                  squint mode, doppler beam-sharpening mode,
                  bistatic SAR, inverse SAR)

2  342/365     (2 OR, 0 XR)
    Class 342 :  COMMUNICATIONS:  DIRECTIVE RADIO WAVE SYSTEMS
                  AND DEVICES
    342/350      DIRECTIVE
    342/361      .Including polarized signal communication
                  transmitter or receiver
    342/365      ..Circular

2  342/373     (0 OR, 2 XR)
    Class 342 :  COMMUNICATIONS:  DIRECTIVE RADIO WAVE SYSTEMS
                  AND DEVICES
    342/350      DIRECTIVE
    342/368      .Including a steerable array
    342/373      ..With a matrix

2  342/379     (0 OR, 2 XR)
    Class 342 :  COMMUNICATIONS:  DIRECTIVE RADIO WAVE SYSTEMS
                  AND DEVICES
    342/350      DIRECTIVE
    342/378      .Utilizing correlation techniques
    342/379      ..Side lobe elimination

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10840014\_CLSTITLES

2 342/408 (2 OR, 0 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/350 DIRECTIVE  
 342/385 .Beacon or receiver  
 342/386 ..With transmisson of bearing or position  
 determinative signals  
 342/407 ...Fixed course or bearing indicating  
 342/408 ....Moving beam

2 342/424 (1 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/350 DIRECTIVE  
 342/385 .Beacon or receiver  
 342/417 ..Direction-finding receiver only  
 342/422 ...With self-orienting antenna pattern  
 342/423 ....Plural antennas  
 342/424 .....Tracking interferometer

2 342/44 (1 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/42 RADAR TRANSPONDER SYSTEM  
 342/44 .Unique identity

2 342/51 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/42 RADAR TRANSPONDER SYSTEM  
 342/51 .Radar transponder only

2 343/704 (2 OR, 0 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/704 .With ice clearer or preventer

2 343/722 (2 OR, 0 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/722 .With lumped reactance filter in active antenn

a

2 343/725 (1 OR, 1 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS

10840014\_CLSTITLES

- 343/725 .Plural separate diverse type
- 2 343/741 (1 OR, 1 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/741 .High frequency type loops
- 2 343/750 (2 OR, 0 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/749 .With lumped reactance for loading antenna  
 343/750 ..Adjustable reactance
- 2 343/755 (1 OR, 1 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/753 .With spaced or external radio wave refractor  
 (e.g., lens)  
 343/755 ..With reflector
- 2 343/756 (1 OR, 1 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/756 .With polarization filter or converter
- 2 343/767 (0 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/767 .Slot type
- 2 343/772 (0 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/772 .Wave guide type (e.g., horn)
- 2 343/781P (0 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/772 .Wave guide type (e.g., horn)  
 343/781R ..With external reflector or director  
 343/781P ...Plural reflectors
- 2 343/788 (0 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/787 .Including magnetic material  
 343/788 ..Loop type

10840014\_CLSTITLES

- 2 343/792.5 (1 OR, 1 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/792.5 .Logarithmically periodic
  
- 2 343/830 (0 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/825 .Fractional, multiple, or full wave length  
linear type
  - 343/829 ..With grounding structure, including  
counterpoises
  - 343/830 ...With coaxial feed line
  
- 2 343/853 (0 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/850 .With coupling network or impedance in the  
leadin
  - 343/853 ..With plural antennas
  
- 2 343/861 (0 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/850 .With coupling network or impedance in the  
leadin
  - 343/860 ..Impedance matching network
  - 343/861 ...Adjustable
  
- 2 343/894 (0 OR, 2 XR)
  - Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS
  - 343/700R ANTENNAS
  - 343/894 .With signal, indicator or alarm
  
- 2 348/564 (0 OR, 2 XR)
  - Class 348 : TELEVISION
  - 348/553 BASIC RECEIVER WITH ADDITIONAL FUNCTION
  - 348/563 .For display of additional information
  - 348/564 ..Simultaneously and on same screen (e.g.,  
multiscreen)
  
- 2 348/569 (1 OR, 1 XR)
  - Class 348 : TELEVISION
  - 348/553 BASIC RECEIVER WITH ADDITIONAL FUNCTION
  - 348/563 .For display of additional information
  - 348/569 ..Receiver indicator (e.g., on screen display)



# 10840014\_CLSTITLES

- 2 348/614 (2 OR, 0 XR)
  - Class 348 : TELEVISION
  - 348/571 IMAGE SIGNAL PROCESSING CIRCUITRY SPECIFIC TO TELEVISION
  - 348/607 .Noise or undesired signal reduction
  - 348/614 ..Ghost elimination (e.g., multipath)
  
- 2 348/705 (0 OR, 2 XR)
  - Class 348 : TELEVISION
  - 348/609 ...Reduction of chrominance luminance cross-talk (e.g., precomb)
  - 348/705 .Switching
  
- 2 348/724 (1 OR, 1 XR)
  - Class 348 : TELEVISION
  - 348/723 TELEVISION TRANSMITTER CIRCUITRY
  - 348/724 .Modulator
  
- 2 348/732 (2 OR, 0 XR)
  - Class 348 : TELEVISION
  - 348/725 RECEIVER CIRCUITRY
  - 348/731 .Tuning
  - 348/732 ..Search tuning
  
- 2 374/117 (0 OR, 2 XR)
  - Class 374 : THERMAL MEASURING AND TESTING
  - 374/100 TEMPERATURE MEASUREMENT (E.G., THERMOMETER)
  - 374/117 .By a vibratory effect (e.g., resonant frequency, acoustical)
  
- 2 375/232 (1 OR, 1 XR)
  - Class 375 : PULSE OR DIGITAL COMMUNICATIONS
  - 375/229 EQUALIZERS
  - 375/230 .Automatic
  - 375/232 ..Adaptive
  
- 2 398/209 (0 OR, 2 XR)
  - Class 398 : OPTICAL COMMUNICATIONS
  - 398/202 RECEIVER
  - 398/208 .Including postcompensation
  - 398/209 ..Feedback
  
- 2 399/13 (0 OR, 2 XR)
  - Class 399 : ELECTROPHOTOGRAPHY
  - 399/9 DIAGNOSTICS
  - 399/13 .Component present or mounted
  
- 2 399/90 (2 OR, 0 XR)

10840014\_CLSTITLES

Class 399 : ELECTROPHOTOGRAPHY  
 399/75 MACHINE OPERATION  
 399/90 .Electrical connection

2 430/580 (0 OR, 2 XR)  
 Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS,  
 COMPOSITION, OR PRODUCT THEREOF  
 430/495.1 RADIATION SENSITIVE PRODUCT  
 430/564 .Silver compound sensitizer containing  
 430/570 ..Spectral sensitizing  
 430/580 ...Styryl sensitizer

2 430/581 (0 OR, 2 XR)  
 Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS,  
 COMPOSITION, OR PRODUCT THEREOF  
 430/495.1 RADIATION SENSITIVE PRODUCT  
 430/564 .Silver compound sensitizer containing  
 430/570 ..Spectral sensitizing  
 430/581 ...Cyanine sensitizer

2 430/585 (0 OR, 2 XR)  
 Class 430 : RADIATION IMAGERY CHEMISTRY: PROCESS,  
 COMPOSITION, OR PRODUCT THEREOF  
 430/495.1 RADIATION SENSITIVE PRODUCT  
 430/564 .Silver compound sensitizer containing  
 430/570 ..Spectral sensitizing  
 430/581 ...Cyanine sensitizer  
 430/583 ....Containing odd number of methine groups  
 430/585 .....Three methine groups, i.e., carbocyanines

2 455/117 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/91 TRANSMITTER  
 455/117 .With electrical protection of transmitter  
 circuit or operator

2 455/182.3 (1 OR, 1 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/150.1 .Signal selection based on frequency (e.g.,  
 tuning)  
 455/179.1 ..Channel or station selection  
 455/182.3 ...Fine tuning

2 455/183.1 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS

10840014\_CLSTITLES

455/130	RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
455/150.1	.Signal selection based on frequency (e.g., tuning)
455/179.1	..Channel or station selection
455/183.1	...With frequency synthesizer

2 455/193.1 (1 OR, 1 XR)

Class	455 : TELECOMMUNICATIONS
455/130	RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
455/150.1	.Signal selection based on frequency (e.g., tuning)
455/193.1	..With antenna circuit tuning

2 455/226.1 (0 OR, 2 XR)

Class	455 : TELECOMMUNICATIONS
455/130	RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
455/226.1	.Measuring or testing of receiver

2 455/235.1 (0 OR, 2 XR)

Class	455 : TELECOMMUNICATIONS
455/130	RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
455/230	.Local control of receiver operation
455/232.1	..Gain control
455/234.1	...Automatic
455/235.1	....Forward acting

2 455/249.1 (0 OR, 2 XR)

Class	455 : TELECOMMUNICATIONS
455/130	RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
455/230	.Local control of receiver operation
455/232.1	..Gain control
455/234.1	...Automatic
455/249.1	....Variable attenuator type

2 455/272 (0 OR, 2 XR)

Class	455 : TELECOMMUNICATIONS
455/130	RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
455/269	.With wave collector (e.g., antenna)
455/272	..Plural separate collectors

2 455/276.1 (0 OR, 2 XR)

Class	455 : TELECOMMUNICATIONS
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10840014\_CLSTITLES

455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/269 .With wave collector (e.g., antenna)  
455/272 ..Plural separate collectors  
455/276.1 ...With phase shifting, correcting, or  
regulating in the output path of one or mor

e collectors

2 455/282 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/269 .With wave collector (e.g., antenna)  
455/280 ..With coupling to a stage of the receiver  
455/281 ...Having distributed parameters  
455/282 ....Transmission line

2 455/289 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/269 .With wave collector (e.g., antenna)  
455/280 ..With coupling to a stage of the receiver  
455/289 ...With coupling varying, regulating, or  
control

2 455/291 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/269 .With wave collector (e.g., antenna)  
455/280 ..With coupling to a stage of the receiver  
455/291 ...Using active device (e.g., as preamplifier  
or reactance)

2 455/297 (1 OR, 1 XR)  
Class 455 : TELECOMMUNICATIONS  
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/296 .Noise or interference elimination  
455/297 ..In vehicle

2 455/315 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
CONVERTER  
455/313 .Frequency modifying or conversion  
455/314 ..Plural separate successive conversions

## 10840014\_CLSTITLES

- 455/315           ...With plural separate local oscillators
- 2 455/351           (0 OR, 2 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/130        RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
                     CONVERTER  
     455/347        .Cabinet, housing, or chassis structure  
     455/351        ..Transportable
- 2 455/352           (0 OR, 2 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/130        RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
                     CONVERTER  
     455/352        .Remote control of receiver
- 2 455/80            (1 OR, 1 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/73         TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
                     TRANSCEIVER)  
     455/78         .With transmitter-receiver switching or  
                     interaction prevention  
     455/79         ..Automatic (e.g., voice operated)  
     455/80         ...With distributed parameter coupling
- 2 600/407           (2 OR, 0 XR)  
     Class 600 : SURGERY  
     600/300        DIAGNOSTIC TESTING  
     600/407        .Detecting nuclear, electromagnetic, or  
                     ultrasonic radiation
- 2 600/410           (1 OR, 1 XR)  
     Class 600 : SURGERY  
     600/300        DIAGNOSTIC TESTING  
     600/407        .Detecting nuclear, electromagnetic, or  
                     ultrasonic radiation  
     600/410        ..Magnetic resonance imaging or spectroscopy
- 2 600/411           (2 OR, 0 XR)  
     Class 600 : SURGERY  
     600/300        DIAGNOSTIC TESTING  
     600/407        .Detecting nuclear, electromagnetic, or  
                     ultrasonic radiation  
     600/410        ..Magnetic resonance imaging or spectroscopy  
     600/411        ...Combined with therapeutic or diverse  
                     diagnostic device
- 2 600/424           (1 OR, 1 XR)

10840014\_CLSTITLES

	Class	600	:	SURGERY
	600/300			DIAGNOSTIC TESTING
	600/407			.Detecting nuclear, electromagnetic, or ultrasonic radiation
	600/424			..With means for determining position of a device placed within a body
2	600/430		(2 OR, 0 XR)	
	Class	600	:	SURGERY
	600/300			DIAGNOSTIC TESTING
	600/407			.Detecting nuclear, electromagnetic, or ultrasonic radiation
	600/430			..With microwave carrier signal
2	600/549		(0 OR, 2 XR)	
	Class	600	:	SURGERY
	600/300			DIAGNOSTIC TESTING
	600/549			.Temperature detection
2	607/36		(2 OR, 0 XR)	
	Class	607	:	SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION
	607/1			LIGHT, THERMAL, AND ELECTRICAL APPLICATION
	607/2			.Electrical therapeutic systems
	607/9			..Heart rate regulating (e.g., pacing)
	607/36			...Feature of stimulator housing or encapsulation
2	607/50		(2 OR, 0 XR)	
	Class	607	:	SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION
	607/1			LIGHT, THERMAL, AND ELECTRICAL APPLICATION
	607/2			.Electrical therapeutic systems
	607/50			..Promoting tissue growth or healing
2	715/721		(2 OR, 0 XR)	
	Class	715	:	DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT
	Could not find subclass title.			
2	725/40		(0 OR, 2 XR)	
	Class	725	:	INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
	725/37			OPERATOR INTERFACE
	725/38			.To facilitate tuning or selection of video signal
	725/39			..Electronic program guide
	725/40			...For displaying additional information

10840014\_CLSTITLES

2 725/44 (0 OR, 2 XR)

Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS

725/37 OPERATOR INTERFACE

725/38 .To facilitate tuning or selection of video  
signal

725/39 ..Electronic program guide

725/44 ...Content arrangement

2 725/45 (0 OR, 2 XR)

Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS

725/37 OPERATOR INTERFACE

725/38 .To facilitate tuning or selection of video  
signal

725/39 ..Electronic program guide

725/44 ...Content arrangement

725/45 ....Based on genre, theme, or category

2 725/56 (1 OR, 1 XR)

Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS

725/37 OPERATOR INTERFACE

725/38 .To facilitate tuning or selection of video  
signal

725/56 ..Channel guide (i.e., channel-specific as  
opposed to program-specific guide)

able 2  
 about 1  
 above 2  
 abstract 1  
 access 1  
 accessed 1  
 accessing 2  
 accompanying 1  
 accordance 3  
 according 20  
 accordingly 2  
 active 2  
 actual 10  
 adding 1  
 additionally 4  
 additions 3  
 advantage 4  
 advantages 6  
 after 1  
 aid 1  
 ajlpi 1  
 ajlpil 1  
 all 1  
 allow 2  
 alpha 2  
 alpil 1  
 also 1  
 alterations 5  
 alternatively 1  
 amplifiers 1  
 amplifying 1  
 amplitude 19  
 an 57  
 and 75  
 another 7  
 antenna 56  
 antennas 19  
 any 30  
 apparent 2  
 appended 2  
 applicants 1  
 application 21  
 are 25  
 arranged 1  
 array 1  
 art 2  
 as 43  
 associated 2



at 27  
attorney 16  
attorneyis 4  
average 2  
averaged 2  
averaging 2  
back 8  
background 10  
band 6  
bandwidth 2  
be 74  
been 1  
begins 1  
behind 3  
being 2  
best 1  
between 2  
both 6  
brief 1  
building 1  
bus 1  
but 2  
by 26  
calculating 1  
calibration 2  
can 2  
capture 1  
carried 1  
cavity 2  
center 1  
certain 8  
changes 1  
channel 1  
claim 1  
claims 4  
clothing 1  
coaxial 4  
combination 7  
combine 2  
combined 4  
compact 1  
compensate 3  
complete 1  
components 4  
composition 1  
compound 1  
comprise 14  
comprises 1

comprising 2  
computer 2  
computing 14  
configuration 2  
conjunction 1  
considered 1  
constrain 1  
contemplates 1  
continuous 1  
converted 1  
converting 3  
correct 4  
correction 13  
correspond 1  
corresponding 4  
corresponds 5  
coupled 4  
coupling 2  
cover 1  
cubic 1  
daloi 1  
data 3  
date 1  
define 1  
defined 2  
departing 5  
deployed 3  
described 5  
describes 2  
description 4  
descriptions 1  
desirable 1  
detail 1  
detailed 1  
detect 5  
detected 2  
detecting 1  
detects 2  
determine 1  
determined 2  
determining 1  
device 7  
devices 2  
diagram 2  
difference 1  
differences 4  
different 4  
digital 2

digitizer 3  
dimensional 12  
dimensions 2  
direction 1  
disadvantages 1  
disclosed 1  
disclosure 5  
discrete 1  
disk 3  
display 15  
displayed 12  
displaying 1  
displays 1  
distributor 1  
diverse 2  
do 1  
docket 20  
document 4  
does 4  
domain 4  
drawings 5  
drives 4  
due 1  
duration 1  
during 1  
dvd 1  
each 13  
effects 1  
elements 1  
eliminated 1  
embodiment 23  
embodiments 7  
emit 1  
emits 1  
emitted 2  
empty 1  
entry 3  
environment 2  
equal 1  
establish 2  
established 2  
estimated 2  
example 35  
examples 4  
execute 1  
exists 1  
expose 1  
expressed 1

extremely 1  
facilitate 1  
facilitates 1  
fast 4  
features 1  
few 1  
fewer 3  
fiberglass 1  
fidelity 1  
field 3  
fifty 1  
figure 16  
figures 5  
filing 1  
filter 2  
filtering 1  
final 1  
finding 1  
first 1  
five 1  
flat 1  
flowchart 2  
following 4  
for 70  
form 1  
format 2  
fourier 4  
frequency 15  
from 39  
functions 1  
further 1  
gate 1  
general 2  
generally 4  
generate 13  
generated 5  
generates 6  
generating 10  
generator 11  
gigahertz 1  
goggle 1  
greater 1  
ground 1  
hardware 3  
has 5  
have 9  
having 2  
herein 2

hereof 1  
hereto 1  
high 2  
higher 1  
hold 2  
horizontal 1  
horizontally 1  
housing 7  
however 1  
hown 1  
hstep 1  
human 1  
hundred 1  
identified 4  
identify 2  
if 12  
illustrate 2  
illustrated 11  
illustrates 4  
illustrating 4  
image 80  
images 13  
imaging 23  
impinge 1  
improve 2  
impulse 1  
impulsive 3  
in 38  
include 10  
included 1  
includes 12  
incorporated 1  
information 2  
initial 1  
input 1  
instantaneous 1  
instructions 1  
integrated 1  
intend 1  
intensity 1  
interface 5  
interference 7  
interfering 2  
interpreting 1  
invention 14  
inverse 2  
invoke 1  
is 35

issued 1  
it 3  
its 3  
known 2  
larger 1  
least 6  
like 3  
link 1  
living 1  
located 4  
logic 5  
low 4  
machine 1  
made 6  
magnetic 1  
manages 1  
manipulate 1  
manner 2  
map 1  
mapped 1  
material 5  
matrices 9  
matrix 35  
matter 1  
may 125  
means 1  
meant 1  
measurements 4  
media 1  
megahertz 1  
member 2  
memory 8  
metallic 4  
method 13  
methods 2  
microseconds 1  
mode 5  
modifications 3  
module 1  
modules 2  
more 17  
moreover 1  
moving 16  
multi 3  
multiple 1  
multiplied 1  
multiply 1  
multiplying 2

nanoseconds 1  
narrow 6  
needs 1  
next 3  
nine 1  
no 22  
noise 2  
non 2  
none 1  
not 8  
note 1  
now 1  
number 3  
numerals 1  
ob 1  
object 27  
objects 4  
obstruction 9  
of 118  
office 1  
omissions 3  
on 4  
one 29  
only 12  
operable 4  
operate 3  
operates 1  
operation 1  
operations 5  
option 1  
or 51  
order 3  
organism 1  
orientations 2  
other 16  
out 2  
output 1  
page 20  
paragraph 1  
parameter 1  
parameters 2  
particular 3  
parts 1  
pass 3  
passes 1  
passive 3  
patent 23  
path 1

peaks 2  
percent 1  
perform 5  
performed 4  
period 2  
periodic 1  
periods 2  
permutations 4  
person 1  
perspective 1  
physical 4  
pi 27  
picosecond 1  
placement 1  
planar 1  
plurality 1  
plus 1  
point 40  
points 11  
polarization 2  
polarize 1  
polarized 2  
portions 1  
ports 1  
position 1  
positions 2  
possible 1  
power 3  
preceding 7  
present 5  
presented 3  
previous 1  
problems 1  
procedure 3  
proceeds 5  
processes 1  
processor 10  
processors 1  
programmable 1  
provide 3  
provided 1  
proximate 1  
ps 4  
pulse 2  
pulses 2  
purposes 1  
ra 2  
racjklpi 1



racklps 1  
radar 4  
radio 11  
ram 1  
random 1  
range 14  
rate 2  
ratio 1  
re 1  
read 1  
readers 1  
readily 1  
receive 32  
received 13  
receiver 2  
receives 5  
receiving 1  
reconstruction 1  
record 2  
records 2  
reduce 5  
reduced 1  
refer 2  
reference 6  
referring 2  
refers 13  
reflect 2  
reflected 11  
region 5  
relates 1  
relative 2  
removable 1  
remove 2  
removed 1  
removing 1  
repeated 2  
repetition 2  
represent 5  
representing 1  
required 1  
respectively 2  
resulting 1  
retrieval 2  
return 1  
rf 1  
rise 1  
rk 10  
rklpi 3

rom 1  
rotated 1  
round 27  
rtt 2  
rttipi 1  
rttjklpi 5  
rttlpi 3  
rttxlpil 1  
rttzlpil 1  
satisfy 1  
scale 2  
scaled 1  
scope 6  
screen 2  
seconds 1  
select 3  
selected 10  
send 1  
sends 2  
sent 1  
separate 1  
separated 2  
serves 1  
set 2  
seventy 1  
several 1  
shape 1  
short 1  
shown 2  
side 1  
signal 14  
signals 47  
single 1  
size 1  
skilled 2  
smaller 1  
snr 1  
software 3  
some 4  
source 4  
space 21  
specific 1  
specifically 1  
spirit 1  
stage 1  
stationary 15  
step 19  
steps 2

storage 2  
store 1  
stored 1  
stores 1  
structure 2  
subset 5  
substitutions 1  
subtract 4  
subtracted 2  
successive 8  
such 21  
suitable 25  
summary 1  
suppress 1  
suppressed 4  
surface 1  
system 54  
systems 1  
taken 1  
takes 4  
targeted 1  
targets 25  
technical 9  
techniques 1  
term 3  
terminates 1  
terms 1  
than 4  
that 35  
the 205  
them 1  
then 6  
there 6  
they 1  
thirty 1  
this 9  
those 1  
three 13  
threshold 1  
through 8  
time 34  
times 10  
tj 8  
to 135  
together 4  
towards 3  
tp 1  
transform 4

transmit 23  
transmits 3  
transmitted 5  
transmitter 1  
transmitting 1  
travel 7  
trip 27  
tuple 1  
twenty 1  
two 4  
types 1  
typical 1  
ultra 5  
understanding 1  
understood 1  
unless 1  
updated 1  
used 24  
using 12  
utilizing 1  
value 22  
values 19  
various 1  
vertical 1  
vertically 1  
video 1  
view 2  
virtual 3  
volt 1  
wall 2  
wave 4  
waveform 36  
waveforms 26  
waves 1  
weapon 1  
where 2  
which 11  
while 1  
wide 1  
wideband 4  
will 1  
windowed 2  
wish 1  
with 14  
within 1  
without 5  
words 1  
written 3

10840014\_WDS

xi 1  
yet 3  
yi 1  
yield 4  
zeroed 1  
zi 1